

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/528,630

Source: IFW

Date Processed by STIC: 7/10/06

ENTERED



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/528,630

DATE: 07/10/2006
TIME: 09:46:22

Input Set : A:\BB-138.ST25.txt
Output Set: N:\CRF4\07102006\J528630.raw

3 <110> APPLICANT: Bufe, Bernd
4 Hofmann, Thomas
5 Krautwurst, Dietmar
6 Kuhn, Christina
7 Meyerhof, Wolfgang
9 <120> TITLE OF INVENTION: Bitter taste receptors
11 <130> FILE REFERENCE: BB-138
13 <140> CURRENT APPLICATION NUMBER: US 10/528630
14 <141> CURRENT FILING DATE: 2005-03-22
16 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/010691
17 <151> PRIOR FILING DATE: 2003-09-25
19 <150> PRIOR APPLICATION NUMBER: US 60/413298
20 <151> PRIOR FILING DATE: 2002-09-25
22 <160> NUMBER OF SEQ ID NOS: 52
24 <170> SOFTWARE: PatentIn version 3.2
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 333
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
33 Met Leu Thr Leu Thr Arg Ile Arg Thr Val Ser Tyr Glu Val Arg Ser
34 1 5 10 15
37 Thr Phe Leu Phe Ile Ser Val Leu Glu Phe Ala Val Gly Phe Leu Thr
38 20 25 30
41 Asn Ala Phe Val Phe Leu Val Asn Phe Trp Asp Val Val Lys Arg Gln
42 35 40 45
45 Ala Leu Ser Asn Ser Asp Cys Val Leu Leu Cys Leu Ser Ile Ser Arg
46 50 55 60
49 Leu Phe Leu His Gly Leu Leu Phe Leu Ser Ala Ile Gln Leu Thr His
50 65 70 75 80
53 Phe Gln Lys Leu Ser Glu Pro Leu Asn His Ser Tyr Gln Ala Ile Ile
54 85 90 95
57 Met Leu Trp Met Ile Ala Asn Gln Ala Asn Leu Trp Leu Ala Ala Cys
58 100 105 110
61 Leu Ser Leu Leu Tyr Cys Ser Lys Leu Ile Arg Phe Ser His Thr Phe
62 115 120 125
65 Leu Ile Cys Leu Ala Ser Trp Val Ser Arg Lys Ile Ser Gln Met Leu
66 130 135 140
69 Leu Gly Ile Ile Leu Cys Ser Cys Ile Cys Thr Val Leu Cys Val Trp
70 145 150 155 160
73 Cys Phe Phe Ser Arg Pro His Phe Thr Val Thr Val Leu Phe Met
74 165 170 175
77 Asn Asn Asn Thr Arg Leu Asn Trp Gln Asn Lys Asp Leu Asn Leu Phe

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/528,630

DATE: 07/10/2006
TIME: 09:46:22

Input Set : A:\BB-138.ST25.txt
Output Set: N:\CRF4\07102006\J528630.raw

78	180	185	190	
81	Tyr Ser Phe Leu Phe Cys Tyr Leu Trp Ser Val Pro Pro Phe Leu Leu			
82	195	200	205	
85	Phe Leu Val Ser Ser Gly Met Leu Thr Val Ser Leu Gly Arg His Met			
86	210	215	220	
89	Arg Thr Met Lys Val Tyr Thr Arg Asn Ser Arg Asp Pro Ser Leu Glu			
90	225	230	235	240
93	Ala His Ile Lys Ala Leu Lys Ser Leu Val Ser Phe Phe Cys Phe Phe			
94	245	250	255	
97	Val Ile Ser Ser Cys Val Ala Phe Ile Ser Val Pro Leu Leu Ile Leu			
98	260	265	270	
101	Trp Arg Asp Lys Ile Gly Val Met Val Cys Val Gly Ile Met Ala Ala			
102	275	280	285	
105	Cys Pro Ser Gly His Ala Ala Ile Leu Ile Ser Gly Asn Ala Lys Leu			
106	290	295	300	
109	Arg Arg Ala Val Met Thr Ile Leu Leu Trp Ala Gln Ser Ser Leu Lys			
110	305	310	315	320
113	Val Arg Ala Asp His Lys Ala Asp Ser Arg Thr Leu Cys			
114	325	330		
117	<210> SEQ ID NO: 2			
118	<211> LENGTH: 999			
119	<212> TYPE: DNA			
120	<213> ORGANISM: Homo sapiens			
122	<400> SEQUENCE: 2			
123	atgttgactc taactcgcat ccgcactgtg tccttatgaag tcaggagttac atttctgttc	60		
125	atttcagttcc tggagtttgc agtggggttt ctgaccaatg ccttcgtttt cttggtaat	120		
127	ttttggatg tagtgaagag gcaggcactg agcaacagtg attgtgtgct gctgtgtctc	180		
129	agcatcagcc ggctttcct gcatggactg ctgttcctga gtgtatcca gcttacccac	240		
131	ttccagaagt tgagtgaacc actgaaccac agctaccaag ccatcatcat gctatggatg	300		
133	attgcaaaacc aagcaaccc ctggcttgc gcctgcctca gcctgctta ctgctccaag	360		
135	ctcatccgtt tcttcacac cttcctgatc tgcttggcaa gctgggtctc caggaagatc	420		
137	tcccagatgc tcctgggtat tattcttgc tcctgcatct gcactgtcct ctgtgtttgg	480		
139	tgcttttta gcagacctca cttcacagtc acaactgtgc tattcatgaa taacaataca	540		
141	aggctcaact ggcagaataa agatctcaat ttattttatt ctttcttctt ctgtatctg	600		
143	tggctgtgc ctccttctt attgtttctg gtttcttctg ggatgctgac tgcgtccctg	660		
145	ggaaggcaca tgaggacaat gaaggctat accagaaact ctcgtaccc cagcctggag	720		
147	gcccacattn aagccctcaa gtctttgtc tccttttct gcttcttctt gatatcatcc	780		
149	tgtgttgct tcatctctgt gcccctactg attctgtggc gcgacaaaat aggggtgatg	840		
151	gtttgtgttgg gataaatggc agcttgc tctggcatg cagccatct gatctcaggc	900		
153	aatgccaagt tgaggagagc tgcgtatgacc attctgtctt gggctcagag cagcctgaag	960		
155	gtaagagccg accacaaggc agattcccg acactgtgc	999		
158	<210> SEQ ID NO: 3			
159	<211> LENGTH: 337			
160	<212> TYPE: PRT			
161	<213> ORGANISM: Homo sapiens			
163	<400> SEQUENCE: 3			
165	Met Leu Gly Arg Cys Phe Pro Pro Asp Thr Lys Glu Lys Gln Gln Leu			
166	1 5 10 15			
169	Arg Met Thr Lys Leu Cys Asp Pro Ala Glu Ser Glu Leu Ser Pro Phe			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/528,630

DATE: 07/10/2006
TIME: 09:46:22

Input Set : A:\BB-138.ST25.txt
Output Set: N:\CRF4\07102006\J528630.raw

170	20	25	30	
173	Leu Ile Thr Leu Ile Leu Ala Val Leu Leu Ala Glu Tyr Leu Ile Gly			
174	35	40	45	
177	Ile Ile Ala Asn Gly Phe Ile Met Ala Ile His Ala Ala Glu Trp Val			
178	50	55	60	
181	Gln Asn Lys Ala Val Ser Thr Ser Gly Arg Ile Leu Val Phe Leu Ser			
182	65	70	75	80
185	Val Ser Arg Ile Ala Leu Gln Ser Leu Met Met Leu Glu Ile Thr Ile			
186	85	90	95	
189	Ser Ser Thr Ser Leu Ser Phe Tyr Ser Glu Asp Ala Val Tyr Tyr Ala			
190	100	105	110	
193	Phe Lys Ile Ser Phe Ile Phe Leu Asn Phe Cys Ser Leu Trp Phe Ala			
194	115	120	125	
197	Ala Trp Leu Ser Phe Phe Tyr Phe Val Lys Ile Ala Asn Phe Ser Tyr			
198	130	135	140	
201	Pro Leu Phe Leu Lys Leu Arg Trp Arg Ile Thr Gly Leu Ile Pro Trp			
202	145	150	155	160
205	Leu Leu Trp Leu Ser Val Phe Ile Ser Phe Ser His Ser Met Phe Cys			
206	165	170	175	
209	Ile Asn Ile Cys Thr Val Tyr Cys Asn Asn Ser Phe Pro Ile His Ser			
210	180	185	190	
213	Ser Asn Ser Thr Lys Lys Thr Tyr Leu Ser Glu Ile Asn Val Val Gly			
214	195	200	205	
217	Leu Ala Phe Phe Asn Leu Gly Ile Val Thr Pro Leu Ile Met Phe			
218	210	215	220	
221	Ile Leu Thr Ala Thr Leu Ile Leu Ser Leu Lys Arg His Thr Leu			
222	225	230	235	240
225	His Met Gly Ser Asn Ala Thr Gly Ser Asn Asp Pro Ser Met Glu Ala			
226	245	250	255	
229	His Met Gly Ala Ile Lys Ala Ile Ser Tyr Phe Leu Ile Leu Tyr Ile			
230	260	265	270	
233	Phe Asn Ala Val Ala Leu Phe Ile Tyr Leu Ser Asn Met Phe Asp Ile			
234	275	280	285	
237	Asn Ser Leu Trp Asn Asn Leu Cys Gln Ile Ile Met Ala Ala Tyr Pro			
238	290	295	300	
241	Ala Ser His Ser Ile Leu Ile Gln Asp Asn Pro Gly Leu Arg Arg			
242	305	310	315	320
245	Ala Trp Ser Gly Phe Ser Phe Asp Phe Ile Phe Thr Gln Lys Ser Gly			
246	325	330	335	
249	Leu			
253	<210> SEQ ID NO: 4			
254	<211> LENGTH: 1013			
255	<212> TYPE: DNA			
256	<213> ORGANISM: Homo sapiens			
258	<400> SEQUENCE: 4			
259	atgcttaggga gatgtttcc tccagacacc aaagagaagc aacagctcg aatgactaaa	60		
261	ctctgcgatc ctgcagaaag tgaattgtcg ccatttctca tcaccttaat ttttagcagt	120		
263	ttacttgctg aataacctat tggtatcatt gcaaatggtt tcatcatggc tatacatgca	180		
265	gctgaatggg ttcaaaaataa ggcagttcc acaagtggca ggatcctggt tttcctgagt	240		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/528,630

DATE: 07/10/2006
TIME: 09:46:22

Input Set : A:\BB-138.ST25.txt
Output Set: N:\CRF4\07102006\J528630.raw

267	gtatccagaa	tagctctcca	aaggcctcatg	atgttagaaa	ttaccatcg	ctcaacacctcc	300									
269	ctaagttttt	attctgaaga	cgctgtatat	tatgcattca	aaataagttt	tatattctta	360									
271	aattttgtt	gcctgtggtt	tgctgcctgg	ctcagttct	tctacttgt	gaagattgcc	420									
273	aatttctcc	accccctttt	cctcaaactg	aggtggagaa	ttactggatt	gataaccctgg	480									
275	cttctgtggc	tgtccgtgtt	tatttccttc	agtcacagca	tgttctgcat	caacatctgc	540									
277	actgtgtatt	gtaacaattc	tttccctatc	cactcctcca	actccactaa	gaaaacatac	600									
279	ttgtctgaga	tcaatgtgg	cggtctggct	ttttcttta	acctggggat	tgtgactcct	660									
281	ctgatcatgt	tcatcctgac	agccaccctg	ctgatcctct	ctctcaagag	acacacccta	720									
283	cacatgggaa	gcaatgccac	agggtccaac	gaccggcagca	tggaggctca	catggggcc	780									
285	atcaaagcta	tcaagttactt	tctcatttctc	tacatttca	atgcagttgc	tctgtttatc	840									
287	tacctgtcca	acatgttga	catcaacagt	ctgtggata	atttgtgcca	gatcatcatg	900									
289	gctgcctacc	ctgcccggca	ctcaatttca	ctgattcaag	ataaccctgg	gctgagaaga	960									
291	gcctggagcg	gttccagctt	cgacttcatc	tttacccaaa	agagtggact	ctg	1013									
294	<210> SEQ ID NO: 5															
295	<211> LENGTH: 323															
296	<212> TYPE: PRT															
297	<213> ORGANISM: Homo sapiens															
299	<400> SEQUENCE: 5															
301	Met	Ala	Thr	Val	Asn	Thr	Asp	Ala	Thr	Asp	Lys	Asp	Ile	Ser	Lys	Phe
302	1				5				10			15				
305	Lys	Val	Thr	Phe	Thr	Leu	Val	Val	Ser	Gly	Ile	Glu	Cys	Ile	Thr	Gly
306						20			25			30				
309	Ile	Leu	Gly	Ser	Gly	Phe	Ile	Thr	Ala	Ile	Tyr	Gly	Ala	Glu	Trp	Ala
310						35			40			45				
313	Arg	Gly	Lys	Thr	Leu	Pro	Thr	Gly	Asp	Arg	Ile	Met	Leu	Met	Leu	Ser
314						50			55			60				
317	Phe	Ser	Arg	Leu	Leu	Gln	Ile	Trp	Met	Met	Leu	Glu	Asn	Ile	Phe	
318						65			70			75			80	
321	Ser	Leu	Leu	Phe	Arg	Ile	Val	Tyr	Asn	Gln	Asn	Ser	Val	Tyr	Ile	Leu
322						85			90			95				
325	Phe	Lys	Val	Ile	Thr	Val	Phe	Leu	Asn	His	Ser	Asn	Leu	Trp	Phe	Ala
326						100			105			110				
329	Ala	Trp	Leu	Lys	Val	Phe	Tyr	Cys	Leu	Arg	Ile	Ala	Asn	Phe	Asn	His
330						115			120			125				
333	Pro	Leu	Phe	Phe	Leu	Met	Lys	Arg	Lys	Ile	Ile	Val	Leu	Met	Pro	Trp
334						130			135			140				
337	Leu	Leu	Arg	Leu	Ser	Val	Leu	Val	Ser	Leu	Ser	Phe	Ser	Phe	Pro	Leu
338						145			150			155			160	
341	Ser	Arg	Asp	Val	Phe	Asn	Val	Tyr	Val	Asn	Ser	Ser	Ile	Pro	Ile	Pro
342						165			170			175				
345	Ser	Ser	Asn	Ser	Thr	Glu	Lys	Lys	Tyr	Phe	Ser	Glu	Thr	Asn	Met	Val
346						180			185			190				
349	Asn	Leu	Val	Phe	Phe	Tyr	Asn	Met	Gly	Ile	Phe	Val	Pro	Leu	Ile	Met
350						195			200			205				
353	Phe	Ile	Leu	Ala	Ala	Thr	Leu	Leu	Ile	Leu	Ser	Leu	Lys	Arg	His	Thr
354						210			215			220				
357	Leu	His	Met	Gly	Ser	Asn	Ala	Thr	Gly	Ser	Arg	Asp	Pro	Ser	Met	Lys
358						225			230			235			240	
361	Ala	His	Ile	Gly	Ala	Ile	Lys	Ala	Thr	Ser	Tyr	Phe	Leu	Ile	Leu	Tyr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/528,630

DATE: 07/10/2006
TIME: 09:46:22

Input Set : A:\BB-138.ST25.txt
Output Set: N:\CRF4\07102006\J528630.raw

362	245	250	255
365	Ile Phe Asn Ala Ile Ala Leu Phe Leu Ser Thr Ser Asn Ile Phe Asp		
366	260	265	270
369	Thr Tyr Ser Ser Trp Asn Ile Leu Cys Lys Ile Ile Met Ala Ala Tyr		
370	275	280	285
373	Pro Ala Gly His Ser Val Gln Leu Ile Leu Gly Asn Pro Gly Leu Arg		
374	290	295	300
377	Arg Ala Trp Lys Arg Phe Gln His Gln Val Pro Leu Tyr Leu Lys Gly		
378	305	310	315
381	Gln Thr Leu		
385	<210> SEQ ID NO: 6		
386	<211> LENGTH: 969		
387	<212> TYPE: DNA		
388	<213> ORGANISM: Homo sapiens		
390	<400> SEQUENCE: 6		
391	atggcaacgg tgaacacaga tgccacagat aaagacatat ccaagttcaa ggtcaccc	60	
393	actttggtgg tctccggat agagtgcac actggcatcc ttgggagtgg cttcatcacg	120	
395	ggccatctatg gggctgagtg ggccaggggc aaaacactcc ccactggta ccgcattatg	180	
397	ttgatgctga gctttccag gctcttgcata cagatttggat tgatgctggaa gaacattttc	240	
399	agtctgtat tccgaattgt ttataaccaa aactcagtgt atatcctctt caaagtcatc	300	
401	actgtcttc tgaaccattc caatctctgg tttgctgcct ggctcaaagt ctcttattgt	360	
403	cttagaaatttgc caaaacttcaa tcatcccttg ttcttcgtat tgaagaggaa aatcatagtg	420	
405	ctgatgcctt ggcttctcag gctgtcagtg ttggtttctt taagcttcag cttccctctc	480	
407	tcgagagatg tcttcaatgt gtatgtgaat agtccattc ctatccctc ctccaaactcc	540	
409	acggagaaga agtacttctc tgagaccaat atggtcaacc tggatattttt ctataacatg	600	
411	gggatcttcg ttccctctgat catgttcatc ctggcagcca ccctgctgat cctctctc	660	
413	aagagacaca ccctacacat gggaaagcaat gccacagggt ccagggaccc cagcatgaag	720	
415	gctcacatag gggccatcaa agccaccagc tactttctca tcctctacat tttcaatgca	780	
417	attgctctat ttcttccac gtccaaacatc tttgacactt acagttctg gaatattttt	840	
419	tgcaagatca tcatggctgc ctaccctgccc ggcactcag tacaactgat ctgggcaac	900	
421	cctgggctgaa gaagacgctg gaagcgggtt cagcaccaag ttcccttttta cctaaaagg	960	
423	cagactctg	969	
426	<210> SEQ ID NO: 7		
427	<211> LENGTH: 307		
428	<212> TYPE: PRT		
429	<213> ORGANISM: Homo sapiens		
431	<400> SEQUENCE: 7		
433	Met Gln Ala Ala Leu Thr Ala Phe Phe Val Leu Leu Phe Ser Leu Leu		
434	1 5 10 15		
437	Ser Leu Leu Gly Ile Ala Ala Asn Gly Phe Ile Val Leu Val Leu Gly		
438	20 25 30		
441	Arg Glu Trp Leu Arg Tyr Gly Arg Leu Leu Pro Leu Asp Met Ile Leu		
442	35 40 45		
445	Ile Ser Leu Gly Ala Ser Arg Phe Cys Leu Gln Leu Val Gly Thr Val		
446	50 55 60		
449	His Asn Phe Tyr Tyr Ser Ala Gln Lys Val Glu Tyr Ser Gly Gly Leu		
450	65 70 75 80		
453	Gly Arg Gln Phe Phe His Leu His Trp His Phe Leu Asn Ser Ala Thr		
454	85 90 95		

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/10/2006
PATENT APPLICATION: US/10/528,630 TIME: 09:46:23

Input Set : A:\BB-138.ST25.txt
Output Set: N:\CRF4\07102006\J528630.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:51,52

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/528,630

DATE: 07/10/2006

TIME: 09:46:23

Input Set : A:\BB-138.ST25.txt

Output Set: N:\CRF4\07102006\J528630.raw